



Teacher Survey

For Science & Technology Teachers (STEM)

Your responses to these research questions are strictly confidential. They provide insight for policymakers and nonprofits that want to better serve students and support teachers. Your personal information will never be associated with your responses to the research questions. Thank you.

Complete and return with students' surveys.

1. What subjects do you teach? (Select ALL courses that apply)

- | | |
|--|---|
| 1. <input type="radio"/> Astronomy | 7. <input type="radio"/> Earth Sci. / Geosciences |
| 2. <input type="radio"/> Biology / Life Sciences | 8. <input type="radio"/> Engineering |
| 3. <input type="radio"/> Chemistry | 9. <input type="radio"/> Health Care / Medical |
| 4. <input type="radio"/> Coding / Computer Programming | 10. <input type="radio"/> Manufacturing |
| 5. <input type="radio"/> Computer Science | 11. <input type="radio"/> Mathematics |
| 6. <input type="radio"/> Construction | 12. <input type="radio"/> Physics |
| | 13. <input type="radio"/> Other |

2. Considering the subjects you teach, do you primarily consider yourself a: (Select ALL that apply)

- | | |
|--|---|
| 1. <input type="radio"/> STEM Teacher | 5. <input type="radio"/> Math Teacher |
| 2. <input type="radio"/> Science Teacher | 6. <input type="radio"/> Computer Science Teacher |
| 3. <input type="radio"/> Technology Teacher | 7. <input type="radio"/> Other |
| 4. <input type="radio"/> Engineering Teacher | |

3. Rate your satisfaction with each of the following aspects of your job: (Select ONE for each) 1=Very unsatisfied; 2=Unsatisfied; 3=Mixed feelings; 4=Satisfied; 5=Extremely satisfied

- | | | | | | |
|---------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1. Class size | 1. <input type="radio"/> | 2. <input type="radio"/> | 3. <input type="radio"/> | 4. <input type="radio"/> | 5. <input type="radio"/> |
| 2. Autonomy | 1. <input type="radio"/> | 2. <input type="radio"/> | 3. <input type="radio"/> | 4. <input type="radio"/> | 5. <input type="radio"/> |
| 3. Salary + benefits | 1. <input type="radio"/> | 2. <input type="radio"/> | 3. <input type="radio"/> | 4. <input type="radio"/> | 5. <input type="radio"/> |
| 4. Technology | 1. <input type="radio"/> | 2. <input type="radio"/> | 3. <input type="radio"/> | 4. <input type="radio"/> | 5. <input type="radio"/> |
| 5. Subjects I teach | 1. <input type="radio"/> | 2. <input type="radio"/> | 3. <input type="radio"/> | 4. <input type="radio"/> | 5. <input type="radio"/> |
| 6. Students I teach | 1. <input type="radio"/> | 2. <input type="radio"/> | 3. <input type="radio"/> | 4. <input type="radio"/> | 5. <input type="radio"/> |
| 7. Degree of testing | 1. <input type="radio"/> | 2. <input type="radio"/> | 3. <input type="radio"/> | 4. <input type="radio"/> | 5. <input type="radio"/> |
| 8. Teacher collaboration | 1. <input type="radio"/> | 2. <input type="radio"/> | 3. <input type="radio"/> | 4. <input type="radio"/> | 5. <input type="radio"/> |
| 9. Student engagement | 1. <input type="radio"/> | 2. <input type="radio"/> | 3. <input type="radio"/> | 4. <input type="radio"/> | 5. <input type="radio"/> |
| 10. Facilities and resources | 1. <input type="radio"/> | 2. <input type="radio"/> | 3. <input type="radio"/> | 4. <input type="radio"/> | 5. <input type="radio"/> |
| 11. Available planning time | 1. <input type="radio"/> | 2. <input type="radio"/> | 3. <input type="radio"/> | 4. <input type="radio"/> | 5. <input type="radio"/> |
| 12. External collaboration | 1. <input type="radio"/> | 2. <input type="radio"/> | 3. <input type="radio"/> | 4. <input type="radio"/> | 5. <input type="radio"/> |
| 13. Professional development | 1. <input type="radio"/> | 2. <input type="radio"/> | 3. <input type="radio"/> | 4. <input type="radio"/> | 5. <input type="radio"/> |
| 14. Support from administration | 1. <input type="radio"/> | 2. <input type="radio"/> | 3. <input type="radio"/> | 4. <input type="radio"/> | 5. <input type="radio"/> |

4. Are you, or have you ever been, a school club advisor? (Select ALL that apply)

- | | |
|--|---|
| 1. <input type="radio"/> Computer Club | 7. <input type="radio"/> Science Fairs |
| 2. <input type="radio"/> Health Careers Club | 8. <input type="radio"/> Science National Honor Soc |
| 3. <input type="radio"/> Math Club | 9. <input type="radio"/> Other STEM activities |
| 4. <input type="radio"/> Robotics Club | 10. <input type="radio"/> Other |
| 5. <input type="radio"/> Science/Math Olympians | 11. <input type="radio"/> None |
| 6. <input type="radio"/> Science Club (Bio, Chem, etc) | |

5. Are you involved in youth programs outside of school-sponsored activities?

1. Yes 2. No

6. How long have you been teaching? (Select ONE)

- | | |
|--|---|
| 1. <input type="radio"/> Less than 1 year | 4. <input type="radio"/> 11 years to 20 years |
| 2. <input type="radio"/> 1 year to 5 years | 5. <input type="radio"/> 21+ years |
| 3. <input type="radio"/> 6 years to 10 years | |

7. How long have you been teaching STEM subjects? (Select ONE)

- | | |
|--|---|
| 1. <input type="radio"/> Less than 1 year | 4. <input type="radio"/> 11 years to 20 years |
| 2. <input type="radio"/> 1 year to 5 years | 5. <input type="radio"/> 21+ years |
| 3. <input type="radio"/> 6 years to 10 years | |

8. How long do you plan to continue teaching? (Select ONE)

- | | |
|--|---|
| 1. <input type="radio"/> Less than 1 year | 4. <input type="radio"/> 11 years to 20 years |
| 2. <input type="radio"/> 1 year to 5 years | 5. <input type="radio"/> 21+ years |
| 3. <input type="radio"/> 6 years to 10 years | |

9. What levels of education or training have you achieved? (Select ALL that apply)

- | | |
|---|---|
| 1. <input type="radio"/> Industry Certification / License | 4. <input type="radio"/> Graduate Certificate |
| 2. <input type="radio"/> Associates Degree | 5. <input type="radio"/> Master's Degree |
| 3. <input type="radio"/> Bachelor's Degree | 6. <input type="radio"/> Doctoral Degree |

10. What is your educational preparation for the STEM subjects you teach? (Select ONE)

- A college/graduate degree in ALL the STEM subjects I teach
- A college/graduate degree in MOST STEM subjects I teach
- A college/graduate degree in a STEM subject, but not in STEM subjects I teach
- No college/graduate degree in a STEM subject
- I do not teach STEM subjects.

11. What was your pathway to teaching STEM subjects? (Select ONE)

- Began as STEM teacher right after college
- Shifted from non-STEM to STEM teaching duties
- Became STEM teacher after non-education career
- I do not teach STEM subjects.

(Please continue on other side)

Educational Research Center of America is managing this voluntary survey for the Research Consortium on STEM Career Pathways. The personally identifiable data that you provide may be used by members of the Research Consortium on STEM Career Pathways to contact you about education-related programs and/or services that may be interesting to you. We will not share your information with marketers offering to sell you non-education-related products and services. You can opt-out of these uses at any time with an email to info@studentresearch.org. Educational Research Center of America is not affiliated with any government entity.

12. For students that pursue STEM majors and careers, please rate the importance of each of the following skills to their future success: (Select ONE for each skill) 1=Extremely; 2=Very; 3=Important; 4=Somewhat; 5=Not at all

1. Collaboration Skills	1. <input type="radio"/>	2. <input type="radio"/>	3. <input type="radio"/>	4. <input type="radio"/>	5. <input type="radio"/>
2. Communication Skills	1. <input type="radio"/>	2. <input type="radio"/>	3. <input type="radio"/>	4. <input type="radio"/>	5. <input type="radio"/>
3. Content Knowledge	1. <input type="radio"/>	2. <input type="radio"/>	3. <input type="radio"/>	4. <input type="radio"/>	5. <input type="radio"/>
4. Creative Thinking Skills	1. <input type="radio"/>	2. <input type="radio"/>	3. <input type="radio"/>	4. <input type="radio"/>	5. <input type="radio"/>
5. Critical Thinking Skills	1. <input type="radio"/>	2. <input type="radio"/>	3. <input type="radio"/>	4. <input type="radio"/>	5. <input type="radio"/>
6. Hands-on/Practical Experience	1. <input type="radio"/>	2. <input type="radio"/>	3. <input type="radio"/>	4. <input type="radio"/>	5. <input type="radio"/>
7. Highly Specialized Knowledge	1. <input type="radio"/>	2. <input type="radio"/>	3. <input type="radio"/>	4. <input type="radio"/>	5. <input type="radio"/>
8. Research Skills	1. <input type="radio"/>	2. <input type="radio"/>	3. <input type="radio"/>	4. <input type="radio"/>	5. <input type="radio"/>
9. Self Confidence	1. <input type="radio"/>	2. <input type="radio"/>	3. <input type="radio"/>	4. <input type="radio"/>	5. <input type="radio"/>
10. Project Management Skills	1. <input type="radio"/>	2. <input type="radio"/>	3. <input type="radio"/>	4. <input type="radio"/>	5. <input type="radio"/>

16. If research shows girls who receive extra encouragement from teachers are more likely to continue taking progressively more challenging STEM courses, what long-term impact do you believe that encouragement will have on increasing women's representation in STEM careers? (Select ONE)

1. <input type="radio"/> None	3. <input type="radio"/> Some
2. <input type="radio"/> Little	4. <input type="radio"/> A lot

13. How familiar do you feel you are with the kinds of careers available to students interested in STEM? (Select ONE)

1. <input type="radio"/> Extremely	3. <input type="radio"/> Moderately	5. <input type="radio"/> Not at all
2. <input type="radio"/> Very	4. <input type="radio"/> Slightly	

17. For the purpose of research, what is your ethnic / racial background? (Select ALL that apply)

1. American Indian / Alaskan Native
2. Asian / Asian American / Pacific Islander
3. Black / African American / Caribbean
4. Hispanic / Latino / Latina
5. Middle Eastern
6. White / Caucasian
7. Prefer not to respond

14. Are you interested in learning more about the careers available to students interested in STEM? (Select ONE)

1. <input type="radio"/> Yes	2. <input type="radio"/> No	3. <input type="radio"/> Not sure
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18. What type of community do you teach in? (Select ONE)

1. <input type="radio"/> Urban	2. <input type="radio"/> Suburban	3. <input type="radio"/> Rural
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19. What is your gender?

1. <input type="radio"/> Male	3. <input type="radio"/> Prefer not to answer
2. <input type="radio"/> Female	

15. Should high school teachers deliberately attempt to boost STEM career interest among students historically under-represented in STEM careers? (Select ONE)

1. <input type="radio"/> Yes	2. <input type="radio"/> No	3. <input type="radio"/> Not sure
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20. This year I teach the following grades: (Select ALL that apply)

1. <input type="checkbox"/> 8th	4. <input type="checkbox"/> 11th
2. <input type="checkbox"/> 9th	5. <input type="checkbox"/> 12th
3. <input type="checkbox"/> 10th	

Please send me:

- Additional surveys for my students: _____ (number)
- Additional surveys for another teacher: _____ (name)
- Information about effective solutions to increase equity in STEM education in the classroom
- Information about extra-curricular programs for groups underrepresented in STEM
- Information about membership to the American Association of Physics Teachers
- Information about membership to the National Association of Biology Teachers
- Information about teaching Project Management

***Please provide your email address in the section below to receive the information you've requested.**

So we can share with you interesting and helpful information obtained from our research projects, please write your current contact information – including your email address – in the box below.

Unique 11-digit Identification Number (see box on letter) _____

Name _____

Title/Position _____

High School _____

School Address _____

City _____ **State** _____ **Zip** _____

Email address: _____@_____

I have replaced the teacher to whom this survey was addressed. **Yes** **No**

Estimated school start date in Fall 2019 _____

Thank you for supporting STEM education research and your students' career exploration. Please feel free to tell your colleagues about participating in this important initiative.

A summary of student and educator responses will be shared on our website (www.studentresearchfoundation.org) in Summer 2019.